

DAFTAR PUSTAKA

- Ade Gafar Abdullah, Taufik Ridwan (2008). Implementasi Problem Based Learning (PBL) pada Proses Pembelajaran di BPTP Bandung. Bandung: UPI
- Aisyi, F. K. dkk. (2013). Pengembangan Bahan Ajar TIK SMP mengacu pada Pembelajaran Berbasis Proyek. IX, (2), 117-128.
- Ali, Muhamad. Ariandie Chandra, Andik Asmara. (2013) “Modul Proteus Profesional Untuk Simulasi Rangkaian Digital dan Mikrokontroler”, Fakultas Teknik Universitas Negeri Yogyakarta.
- Arsyad, Azhar (2015). “Media Pembelajaran”, Jakarta : Rajawali Pers.
- Badan Pengembangan SDM. (2013). *Model Pembelajaran Berbasis Proyek (Project Based Learning)*, Jakarta: Mendikbud
- B. Baron (1998) Doing with Understanding: Lesson from Research of on Problem-and Project-Based Learning. *Journal of the Learning Sciences*, Vol 7(3&4), pp. 271-311.
- Bell, S. (2010). Project-Based Learning for the 21st Century: Skills for the Future. *The Clearing House*, 83(2), 39–43. <http://doi.org/10.1080/00098650903505415>
- Chandra, Arieadi dkk, (2012). Modul Proteus Professional 7.5 Isis Digital Simulation. Universitas Negeri Yogyakarta
- Chun-Ming Hung, Gwo-Jen Hwang and Iwen Huang, " A Project Based Digital Storytelling Approach for Improving Students Learning Motivation, Problem Solving Competence and Learning Achievement, National Taiwan University of Science and Technology. Education Technology & Sosiey, 15 (4), 368-379
- Cohen's d. (1977). *Effect Size*. Diakses 30 Agustus 2016, dari https://en.wikiversity.org/wiki/Cohen%27s_d
- Creswell W. John (2014). Research Design “Pendekatan Kualitatif Kuantitatif, dan Mixed”, Yogyakarta : Pustaka Pelajar.
- Dony Sugianto, dkk (2013). Modul Virtual : Multimedia Flipbook Dasar Teknik Digital. Invotec volume IX :101-116.
- Finch, R & Crunkilton, R. (1979). *Curriculum Development in Vocational and Technical Education* . United States of America: Allyn and Bacon. Inc Musyriatul Fikriyah, dkk

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PROJECT BASED LEARNING (PjBL) : DESAIN dan IMPLEMENTASINYA dalam PEMBELAJARAN MIKROKONTROLER di SMK

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() Model Pembelajaran berbasis Proyek (Project Based Learning) disertai media Audio Visual dalam pembelajaran Fisika di SMAN 4 Jember.

Hadi Sutopo , Ariesto dan Arief, Adianus.2010. Terampil Mengolah Data Kualitatif dengan NVIVO. Kencana. Jakarta

Hosseinzadeh, N., & Hesamzadeh, M. R. (2012). Application of Project-Based Learning (PBL) to the Teaching of Electrical Power Systems Engineering. *IEEE Transactions on Education*, 55(4), 495–501. <http://doi.org/10.1109/TE.2012.2191588>

Hung, C.-M., Hwang, G.-J., & Huang, I. (2012). A Project-based Digital Storytelling Approach for Improving Students' Learning Motivation, Problem-Solving Competence and Learning Achievement. *Journal of Educational Technology and Society*, 15(4), 368–379.

Kurzel, Frank, and Michelle Rath. Project Based Learning and Learning environments. Diss. Informing Science Institute, 2007

Muryanto, Joko (2009). Panduan Menggambar Schematic dan Mendesain PCB menggunakan Proteus 6 Profesional. Yogyakarta

Nation, M. L., & Nation, M. L. (2008). Project-based learning for sustainable development project-based learning for sustainable development. *geography*, 107(April 2011), 102–111. <http://doi.org/10.1080/00221340802470685>

Noddings, N. (2007). Aims, Goals, and Objectives, 8, 7–15.

Permen RI. (2013). PERATURAN MENTERI PENDIDIKAN DAN KEBUDAYAAN REPUBLIK INDONESIA NOMOR 81A TAHUN 2013 TENTANG IMPLEMENTASI KURIKULUM PEDOMAN UMUM PEMBELAJARAN.

Rouvrais, S., Ormrod, J., Landrac., MalleThepaut, J., Gilliot. J, M., Thepaut, A., & Tremembert, P. (2006). A mixed project-based learning framework : preparing and developing student competencies in a french grande ecole a mixed project-based learning framework : preparing. *European journal of engineering education*, 31(April 2011), 83–93. <http://doi.org/10.1080/03043790500429500>

Rohrbough, C. B. (2010). Portfolios in Science Education.

Setiawan, Sulhan (2006). Cara Mudah dan Menyenangkan Belajar Mikrokontroler. Yogyakarta : Andi Publisher.

Sugianto, D., Abdullah, A. G., Elvyanti, S., & Muladi, Y. (2013). Modul virtual : multimedia flipbook dasar teknik digital. *Invotec*, IX(2), 101–116.

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The George Lucas Educational Foundation .(2005). *Instructional Module Project Based Learning*. Diakses pada tanggal dari 20 Maret 2015 dari <http://www.edutopia.org/modules/PBL/whatpbl.php>

UPI. (2015). *Pedoman Penulisan Karya Ilmiah UPI Tahun Akademik 2015/2016*. Bandung: Universitas Pendidikan Indonesia.

Waters, Tim, Robert J Marzano, and Brian McNulty " Balanced Leadership: what 30 years of research tell us about the effect of leadership on student achievement, McRel, 2003

West, C. L. (2011). *Teaching middle school jazz: An exploratory sequential mixed methods study*. University of michigan.

- Martínez, F., Herrero, L. C., & De Pablo, S. (2011). Project-based learning and rubrics in the teaching of power supplies and photovoltaic electricity. *IEEE Transactions on Education*, 54(1), 87–96. <http://doi.org/10.1109/TE.2010.2044506>
- Noddings, N. (2007). Aims, Goals, and Objectives, 8, 7–15.
- Permen RI. (2013). PERATURAN MENTERI PENDIDIKAN DAN KEBUDAYAAN REPUBLIK INDONESIA NOMOR 81A TAHUN 2013 TENTANG IMPLEMENTASI KURIKULUM PEDOMAN UMUM PEMBELAJARAN.
- Wang, H., Hu, L., Lu, Y., & Hu, P. (2008). Application of Project-Based Cooperative Learning in Computer Education. *Young Computer Scientists, 2008. ICYCS 2008. The 9th International Conference for*, 2653–2658. <http://doi.org/10.1109/ICYCS.2008.282>
- Nasir, S. B. (2012). Strategy to revitalize technical and vocational education and training (TVET): Management perspectives. *Global journal of management and business research*, 12(23), 1–14.
- Blumenfeld, P. C., Soloway, E., Marx, R. W., & Krajcik, J. S. (1991). Motivating project-based learning : Sustaining the doing , supporting the learning. *Educational Psychologist*, 26 (3&4)(April 2011), 369–398. <http://doi.org/10.1207/s15326985ep2603>
- Brooksbank, J. (1995). Competency based training. *The british journal of theatre nursing : NATNews : The official journal of the national association of theatre nurses*.
- Devco, B. (2014). *Vocational education and training in european development cooperation. Development and cooperation-europeAid* (1st ed., vol. 1). European Commision.
- Division, E. T. (2006). *Project-Based Learning Handbook* (1st ed.). Kuala Lumpur Malaysia: Communications and training sector smart educational development educational technology division ministry of education pesiaran bukit kiara 50604.
- Fauziah, R., Abdullah, A. G., & Hakim, D. L. (2013). Pembelajaran saintifik elektronika dasar berorientasi pembelajaran berbasis masalah. *Invotec, IX*(2), 165–178.

Netty Amaliyah, 2016

PROJECT BASED LEARNING (PjBL) : DESAIN dan IMPLEMENTASINYA dalam PEMBELAJARAN MIKROKONTROLER di SMK

Universitas Pendidikan Indonesia | repository.upi.edu | perpustakaan.upi.edu

- Kim, P., Hong, J.-S., Bonk, C., & Lim, G. (2011). Effects of group reflection variations in project-based learning integrated in a Web 2.0 learning space. *Interactive learning environments*, 19(4), 333–349. <http://doi.org/10.1080/10494820903210782>
- Korfhage, R. (2010). A case study in project-based learning : An international partnership a case study in project-based learning : *Journal of teaching in international business*, 21:3(April 2011), 178–188. <http://doi.org/10.1080/08975930.2010.504464>
- Leong, P. (2003). Thinking teachers in the accelerate 21 revolution of the PS21 movement. *innovation and diversity*, 1 (Asia pacific conference on education), 1–9.
- Michel, J. (2009). Management of change-implementation of problem-based and project-based learning in engineering book review. *European journal of engineering education*, 34(April 2011), 6–606. <http://doi.org/10.1080/03043790701257064>
- Nasir, S. B. (2012). Strategy to revitalize technical and vocational education and training (TVET): Management perspectives. *Global journal of management and business research*, 12(23), 1–14.
- Neo, M., & Neo, T. (2005). A multimedia-enhanced problem-based learning experience in the Malaysian classroom. *Learning, media and technology*, 30(1), 41–53. <http://doi.org/10.1080/13581650500075553>
- Panwar, S., Mao, S., Ryoo, J., & Li, Y. (2004). *TCP/IP essentials* (1st ed.). Cambridge, New York: Cambridge University Press.
- Routledge, P. (2010). Project-based learning for the 21st century : Skills for the clearing house : *A journal of educational strategies, issues and ideas*, 82(April 2011), 39–43. <http://doi.org/10.1080/00098650903505415>
- Street, M., & Wt, L. (2011). Project-based learning in primary schools : effects on pupils learning and attitudes. *Eduation 3-13c*, 39(April), 35–47. <http://doi.org/10.1080/03004270903179538>
- Sugianto, D., Abdullah, A. G., Elvyanti, S., & Muladi, Y. (2013). Modul virtual : multimedia flipbook dasar teknik digital. *Invotec*, IX(2), 101–116.
- T. Husen, T. N. P. (1989). Constructivism in education. *The international encyclopedia of education*, 1(Ernst von Glasersfeld), 162–163. Retrieved from <http://www.univie.ac.at/constructivism/EvG/>
- Taber, K. S. (2011). *Constructivism as educational theory: Contingency in learning, and optimally guided instruction*. (J. Hassaskhah, Ed.) *Educational Theory*. New York: Nova science publishers, Inc. Retrieved from <http://philpapers.org/rec/tabcae>
- Teng, S. K. (2008). *Cyberlab, remote virtual educational laboratory*. Singapore: Institute of technical education, Singapore.

Netty Amaliyah, 2016

PROJECT BASED LEARNING (PjBL) : DESAIN dan IMPLEMENTASINYA dalam PEMBELAJARAN MIKROKONTROLER di SMK

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- Hosseinzadeh, N., & Hesamzadeh, M. R. (2012). Application of Project-Based Learning (PBL) to the Teaching of Electrical Power Systems Engineering. *IEEE Transactions on Education*, 55(4), 495–501. <http://doi.org/10.1109/TE.2012.2191588>
- Martínez, F., Herrero, L. C., & De Pablo, S. (2011). Project-based learning and rubrics in the teaching of power supplies and photovoltaic electricity. *IEEE Transactions on Education*, 54(1), 87–96. <http://doi.org/10.1109/TE.2010.2044506>
- Toral, F Barerro, F Cortes, J.M. Hionojo, D. . R. (2010). A new Systemic Methodology for Lab Learning based on a Cooperative Learning Project. *Engineering Education*, 317–320.
- Wang, H., Hu, L., Lu, Y., & Hu, P. (2008). Application of Project-Based Cooperative Learning in Computer Education. *Young Computer Scientists, 2008. ICYCS 2008. The 9th International Conference for*, 2653–2658. <http://doi.org/10.1109/ICYCS.2008.282>
- Hadi Sutopo , Ariesto dan Arief, Adianus.2010. Terampil Mengolah Data Kualitatif dengan NVIVO. Kencana. Jakarta

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Adapun tesis ini mengambil Judul “**PROJECT BASED LEARNING (PjBL) : DESAIN dan IMPLEMENTASINYA dalam PEMBELAJARAN MIKROKONTROLER di SMK**

”. Dalam Tesis ini akan diterapkan bagaimana model PjBL ini dikembangkan dengan bantuan media pembelajaran proteus.

Penulis berharap penelitian ini dapat memberikan sumbangan pengetahuan bagi pembelajaran, khususnya pembelajaran di Sekolah Menengah Kejuruan (SMK) sebagai upaya mencapai kompetensi siswa sesuai tuntutan dunia industri. Kekurangan dalam penyusunan tesis ini mudah–mudahan menjadi motivasi bagi penulis dan kita semua untuk selalu memperbaikinya.

Akhir kata penulis berharap atas saran yang membangun dalam penulisan tesis ini.

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